

GELCOATED OPAQUE ROOFING



Introduction

In some highly corrosive industrial sites and areas of high salt contamination, high build paint coatings on roofing and cladding substrates such as aluminium and steel may not perform as expected. To address these concerns, Laserlite Building Products manufactures unique solid-coloured heavy-duty roofing and cladding material utilising advanced GRP technology to formulate a corrosive resistant cladding system for use as an innovative replacement for traditional materials.

Key Benefits

- The surface coatings and substrate used in the manufacture of Topclad™ GC have been designed specifically to withstand corrosive atmospheres. The added benefit provided by Topclad™ GC, is the highly polished corrosive resistant surface on the underside of the sheet.
- Topclad™ GC is solid-coloured to match modern roof colours (Subject to pigment availability) this is achieved by applying an Laserlite Building Products 130 micron* EXO-SET 206 Gelcoat layer to the GRP sheeting substrate.
- Advanced technology associated with the Laserlite Building Products Gelcoat manufacturing process allows different solid colour pigmentation to be applied to each side of the sheet, particularly important where the underside of the sheet is not covered by a membrane;
- Available to match a wide range of roof profiles including flat sheet;
- Lightweight cladding for easy handling and installation;
- Reduces solar heat transmission;
- Manufactured to any length.
- Lower freight costs

Applications

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|----------------------------|---------------------------------|----------------------|
| • Wool scouring plants | • Effluent tank cladding | • Abattoirs |
| • Fertiliser buildings | • Extreme marine environments | • Galvanising plants |
| • Poultry and animal sheds | • Buildings in geothermal areas | • Tanneries |
| • Acid plants and smelters | • Compost plants | |

Special Applications

Where corrosion may be of concern to the underside of the roofing and cladding system, an Laserlite Building Products Proprietary high polished corrosion resistant surface can be applied to the underside of the sheet. At additional cost, Vinyl Ester Resin can be incorporated for maximum protection.

Weight/Thickness of Sheeting

The standard weight for Topclad™ GC is 2800g/m² (1.9mm). Other weights up to 3660g/m² (2.5mm) are available subject to minimum order.

Surface Coatings

The Laserlite Building Products 130 micron* EXO-SET 206 Premium Gelcoat weather surface used in the manufacture of Topclad™ GC Offers superior sheet clarity and unsurpassed long-term resistance against UV degradation.

Colours

Topclad™ GC provides excellent opportunity to replicate the colours normally associated with pre-painted metal roofing and cladding products. All Topclad™ GC Products are subject to minimum order quantities.



Operating Temperature

Topclad™ GC will not soften or crack within the designed temperature operating range of -30°C to +70°C.

Fire Retardant

Topclad™ GC can be supplied as fire retardant sheeting. See Topglass® FR50.

Moisture

Where Topclad™ GC will be in continuous contact with moisture, Laserlite Building Products Technical department should be contacted prior to ordering.

Safety

To comply with the requirements of AS 1562.3: 2006 Part 3 Plastic, translucent roofing products are classified as “Brittle Roofing” and therefore not suitable to support foot traffic. With exception of Topglass®/Topclad™ GC Ultra-Safe. Safety mesh should be installed under all translucent roofing.

Thermal Expansion

2.2 x 10.5 cm / cm °C E.g. 7m long sheet with a 40°C temperature change = $2.2 \times 10.5 \times (10 \times 100) \times 7 \times 40 = 6.16\text{mm}$ per 7m length at 40°C temperature rise.

Chemical Resistance

- Topclad™ GC has no known chemical reaction with any construction materials;
- The sheeting is resistant to solar deterioration and most corrosive atmospheres;
- Unaffected by solvents, including hydrocarbons, and provides excellent resistance to most corrosive acids and alkalis.

Specification

The Translucent roofing shall be Topclad™ GC reinforced Polyester roof sheeting as manufactured by Laserlite Building Products to comply with AS 4256.3: 2006 JAS-ANZ Certified. The sheeting shall be measured in g/m² or mm (sheet thickness) and manufactured to conform to the nominated roofing and cladding profile. Installation shall be carried out in accordance with the requirements of AS 1562.3: 2006.

Flashings

For flashings information contact Laserlite Building Products.

Product Handling

Care must be taken when handling and installing the product to avoid stress damage and/or scratching of the surface.